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LASER SHOCK PEENED GAS TURBINE ENGINE COMPRESSOR AIRFOIL EDGES

ABSTRACT

Gas turbine engine compressor component that has an airfoil such as a compressor blade with a metallic airfoil having a leading edge and a trailing edge and at least one laser shock peened surface extending radially along at least a portion of the leading edge and a region having deep compressive residual stresses imparted by laser shock peening (LSP) extending into the airfoil from the laser shock peened surface.